Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-04-16-04** **Date: 20-04-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub division, BBMP, Bangalore.
Project Name	:	Providing Cement Concrete roads in Mariyannapalya colony in Ward no.06 Byatarayanapura Sub division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 3rd 'Y' block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/LOA/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	16-04-18
Sample ID No	:	2017-12-26-05/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates)
		IS: 2386 :1963(Part - 1,3,4) RA2011
		IS 2386 Part 1: Particle Size and Shape
		IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
		IS 2386 Part 4: Mechanical Properties
Date of test	:	17-04-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	265	265	1.8	98.2	90-100
3	20 mm	5644	5909	39.4	60.6	30-70
4	10 mm	4476	10385	69.2	30.8	10-35
5	4.75 mm	4232	14617	97.4	2.6	0-5
6	Pan	383	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-04-16-04** **Date: 20-04-18**

Sample ID No : 2017-12-26-05/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	13.3	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.24	–

Note:

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Quality Manager

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ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-04-16-04** **Date: 20-04-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub division, BBMP, Bangalore.
Project Name	:	Providing Cement Concrete roads in Mariyannapalya colony in Ward no.06 Byatarayanapura Sub division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 3rd 'Y' block, Rajajinagara, Bangalore-560010.
Customer Reference	:	BBMP/EE/BTP/LOA/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-04-18
Sample ID No	:	2017-12-26-05/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	17-04-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	243	243	4.9	95.1	90-100
3	10 mm	2534	2777	55.5	44.5	25-55
4	4.75 mm	1754	4531	90.6	9.4	0-10
5	Pan	469	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-04-16-04** **Date: 20-04-18**

Sample ID No : 2017-12-26-05/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	13.2	
3	Specific Gravity	2.56	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.56	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	25.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.5	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-04-16-04** **Date: 19-04-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub division, BBMP, Bangalore.
Project Name	:	Providing Cement Concrete roads in Mariyannapalya colony in Ward no.06 Byatarayanapura Sub division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 3rd 'Y' block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/LOA/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-04-18
Sample ID No	:	2018-04-16-04/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	17-04-18

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.55	–
2	Finess by Air permeablity method (m^2/kg, Min)	276.8	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-04-16-04** **Date: 15-05-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub division, BBMP, Bangalore.
Project Name	:	Providing Cement Concrete roads in Mariyannapalya colony in Ward no.06 Byatarayanapura Sub division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 3rd 'Y' block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/LOA/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-04-18
Sample ID No	:	2018-04-16-04/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	17-04-18

Compressive Strength			
Sl.No.	**Physical properties**	**Results**	**Requirement as per IS 12269: 2013**
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	53.5N/mm^2	Not less than 53 N/mm^2

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-04-16-04** **Date: 18-04-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub division, BBMP, Bangalore.
Project Name	:	Providing Cement Concrete roads in Mariyannapalya colony in Ward no.06 Byatarayanapura Sub division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 3rd 'Y' block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/LOA/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-04-18
Sample ID No	:	2018-04-16-04/05
Sample Type	:	Indus
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	17-04-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Indus	Fe500	8	0.392	555	649	20.0%	Satisfactory	Satisfactory
2	Indus	Fe500	10	0.615	572	669	20.0%	Satisfactory	Satisfactory

Note:

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2018-04-16-04** **Date: 20-04-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub division, BBMP, Bangalore.
Project Name	:	Providing Cement Concrete roads in Mariyannapalya colony in Ward no.06 Byatarayanapura Sub division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 3rd 'Y' block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/LOA/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-04-18
Sample ID No	:	2018-04-16-04/06
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	16/04/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.50	150.48	1.746	4476	96.5	21.6	20.0	25.1
2	Cover Slab-2	75.51	150.52	1.733	4477	98.1	21.9	20.4	25.5
3	Cover Slab-3	75.52	150.51	1.786	4478	95.9	21.4	19.9	24.9

Note:

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	**CP-2018-04-16-04** **Date: 20-04-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub division, BBMP, Bangalore.
Project Name	:	Providing Cement Concrete roads in Mariyannapalya colony in Ward no.06 Byatarayanapura Sub division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 3rd 'Y' block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/LOA/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-04-18
Sample ID No	:	2018-04-16-04/01
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	16/04/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.51	2.864	7854	142.1	18.1	16.8	21.0
2	B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-04-16-04** **Date: 20-04-18**

Customer : Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.

Address : Byatarayanapura Sub division, BBMP, Bangalore.

Project Name : Providing Cement Concrete roads in Mariyannapalya colony in Ward no.06 Byatarayanapura Sub division.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 3rd 'Y' block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/LOA/ /2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-04-18

Sample ID No : 2017-12-26-05/03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 17-04-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	84	84	8.4	91.6	90-100	90-100	90-100	95-100
3	2.36 mm	147	231	23.1	76.9	60-95	75-100	85-100	95-100
4	1.18 mm	178	409	40.9	59.1	30-70	55-90	75-100	90-100
5	600 micron	189	598	59.8	40.2	15-34	35-59	60-79	80-100
6	300 micron	164	762	76.2	23.8	5-20	8-30	12-40	15-50
7	150 micron	154	916	91.6	8.4	0-10	0-10	0-10	0-15
8	Pan	84	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

AE ward No 6

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-04-16-04** **Date: 20-04-18**

Sample ID No : 2017-12-26-05/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.85	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	7.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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AE ward No 6
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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬೆಂ.ಮ.ಉ.ಪಾ., ಬೆಂಗಳೂರು-24

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಸಾರ್ವಜನಿಕ ಕಾಮಗಾರಿಗಳ ಉಪ ವಿಭಾಗ
ಪೀಣ್ಯ ಕೈಗಾರಿಕಾ ಪ್ರದೇಶ

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2018-04-16-04** **Date: 20-04-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub division, BBMP, Bangalore.
Project Name	:	Providing Cement Concrete roads in Mariyannapalya colony in Ward no.06 Byatarayanapura Sub division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 3rd 'Y' block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/LOA/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-04-18
Sample ID No	:	2017-12-26-05/04
Sample Type/Size	:	Solid concrete blocks of size (400X200X100)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex - C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	17-04-18

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	401	202	202	16362	31.870	1947.8	1957.2	Not less than 1800Kg/m^3
2	402	201	201	16241	32.090	1975.8		
3	400	202	203	16402	31.950	1947.9		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	32.750	31.370	4.40	4.00	Shall not be more than 10% by mass
2	32.420	31.250	3.74		
3	32.500	31.290	3.87		

Ward no 6

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Lab ID : **CP-2018-04-16-04** **Date: 20-04-18**

Sample ID No : **2017-12-26-05/04**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	202	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	402	201	201	
3	404	200	202	
4	400	201	203	
5	402	201	204	
6	402	202	203	
7	401	200	202	
8	403	201	201	
9	401	203	201	
10	401	201	202	
11	401	203	203	
12	402	202	201	
13	402	201	202	
14	403	201	201	
15	404	203	202	
16	403	202	201	
17	401	201	203	
18	403	203	200	
19	404	201	203	
20	402	202	201	
Average of 20	**402**	**202**	**202**	

A.E. Ward No. 6
ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ/ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

CIVIL PRO Sig..... Date..... BANGALORE

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Lab ID : **CP-2018-04-16-04** **Date: 20-04-18**

Sample ID No : 2017-12-26-05/04

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	401	202	81002	372.1	4.6	4.9
2	402	201	80802	389.4	4.8	
3	404	200	80800	402.2	5.0	
4	400	201	80400	428.1	5.3	
5	402	201	80802	401.2	5.0	
6	402	202	81204	438.7	5.4	
7	401	200	80200	385.1	4.8	
8	403	201	81003	372.7	4.6	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

M : 9972924526 | Tel: +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-04-23-01** **Date: 30/04/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.

Address : Byatarayanapura Sub division, BBMP, Bangalore.

Project Name : Providing Cement Concrete roads in Mariyannapalya colony in Ward no.06 Byatarayanapura Sub division.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 3rd 'Y' block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/LOA/ /2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-04-18

Sample ID No : 2018-04-23-01/01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	23/04/2018	30/04/2018	150.26 X 150.36 X 150.30	22593	8.324	393.1	17.4	17.4
2	M20 Concrete	M20	23/04/2018	30/04/2018	150.28 X 150.34 X 150.25	22593	8.289	402.2	17.8	
3	M20 Concrete	M20	23/04/2018	30/04/2018	150.33 X 150.38 X 150.28	22607	8.312	386.6	17.1	

Note:

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Ward No 6
ಮೇಲ್ವಿಚಾರಣೆ ಕೈಗೊಳ್ಳಲಾಗಿದೆ
ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-24

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-04-23-01** **Date: 21/05/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.

Address : Byatarayanapura Sub division, BBMP, Bangalore.

Project Name : Providing Cement Concrete roads in Mariyannapalya colony in Ward no.06 Byatarayanapura Sub division.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 3rd 'Y' block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/LOA/ /2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-04-18

Sample ID No : 2018-04-23-01/02

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	23/04/2018	21/05/2018	150.30 X 150.35 X 150.26	22598	8.274	499.4	22.1	22.1
2	M20 Concrete	M20	23/04/2018	21/05/2018	150.28 X 150.24 X 150.25	22578	8.259	508.0	22.5	
3	M20 Concrete	M20	23/04/2018	21/05/2018	150.23 X 150.28 X 150.28	22577	8.287	492.2	21.8	

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Quality Manager

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-05-02-04** **Date: 07/05/2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub division, BBMP, Bangalore.
Project Name	:	Providing Cement Concrete roads in Mariyannapalya colony in Ward no.06 Byatarayanapura Sub division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 3rd 'Y' block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/LOA/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-18
Sample ID No	:	2018-05-02-04/01
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	07/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	30/04/2018	07/05/2018	150.39 X 150.32 X 150.30	22607	8.364	391.1	17.3	17.0
2	M20 Concrete	M20	30/04/2018	07/05/2018	150.27 X 150.30 X 150.28	22586	8.299	381.7	16.9	
3	M20 Concrete	M20	30/04/2018	07/05/2018	150.40 X 150.38 X 150.27	22617	8.355	382.2	16.9	

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ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-05-02-04** **Date: 28/05/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.

Address : Byatarayanapura Sub division, BBMP, Bangalore.

Project Name : Providing Cement Concrete roads in Mariyannapalya colony in Ward no.06 Byatarayanapura Sub division.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 3rd 'Y' block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/LOA/ /2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-05-18

Sample ID No : 2018-05-02-04/02

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	30/04/2018	28/05/2018	150.40 X 150.32 X 150.22	22608	8.404	495.1	21.9	22.1
2	M20 Concrete	M20	30/04/2018	28/05/2018	150.41 X 150.30 X 150.40	22607	8.342	504.1	22.3	
3	M20 Concrete	M20	30/04/2018	28/05/2018	150.33 X 150.35 X 150.20	22602	8.359	499.5	22.1	

Note:

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Quality Manager

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